L-system Turtle Graphics (day 01)

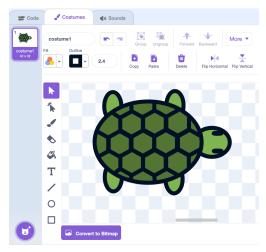
- In Scratch, we wish to create the following:
 - 1. A turtle sprite (from bird's-eye view)
 - 2. Use keyboard buttons to control the turtle using the following moves:

Date:

- W = Move forward
- -D = Turn right
- -A = Turn left
- S = Hop forward (and do not draw)
- E = Save position at top of list
- Q = Return to top-of-list position and delete position from list

Start a new project

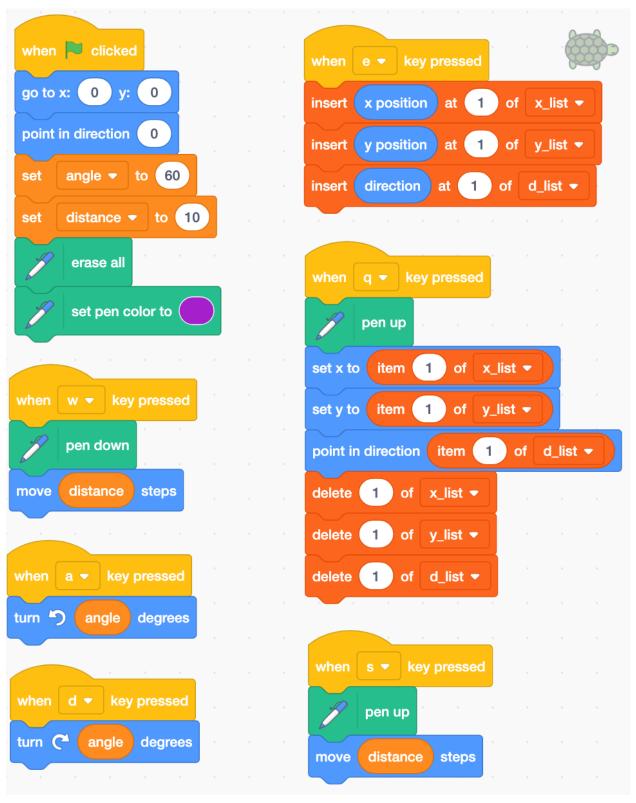
- 1. Go to https://scratch.mit.edu
 - Login to save your work.
 - Create a new project.
- 2. Click on Costumes to edit the cat.
 - Delete the 2nd costume.
 - Change the 1st costume to look like the following turtle:



3. Make the following variables and lists:



4. Write the code:



5. Make the turtle sized small (just big enough to see it is a turtle in fullscreen mode).

- 6. Make a drawing!
 - Go to fullscreen mode.
 - Click the green flag to Go.
 - Type the following keys on your keyboard:

AWEA AWWW QEAW WWQW EAAW WWWA WDWD WDWD WDWQ EAWW WWAW DWDW DWDW DWQW EAAW WWQE AWWW QWDW EAAW WWQE AWWW QWEA AWWW WAWD WDWD WDWD WQEA WWWW AWDW DWDW DWDW QWEA AWWW QEAW WWQW DWEA AWWW QEAW WWQW EAAW WWWA WDWD WDWD WDWQ EAWW WWAW DWDW DWDW DWQW EAAW WWQE AWWW QWDW EAAW WWQE AWWW QWEA AWWW WAWD WDWD WDWD WQEA WWWW AWDW DWDW DWDW QWEA AWWW QEAW WWQW DWEA AWWW QEAW WWQW EAAW WWWA WDWD WDWD WDWQ EAWW WWAW DWDW DWDW DWQW EAAW WWQE AWWW QWDW EAAW WWQE AWWW QWEA AWWW WAWD WDWD WDWD WQEA WWWW AWDW DWDW DWDW QWEA AWWW QEAW WWQW ASSS SSSS SSSS

^{7.} **Submit** a screenshot of the drawing **on Canvas**.

- 8. Make your own drawing!
 - Return to the code. Edit the distance, angle, and initial position.
 - Adjust the keys to whatever you want.
 - Add a key that changes the color.
 - Return to fullscreen.
 - Restart by hitting the green flag. (Go.)
 - Control the turtle to make a drawing.
- 9. Submit a screenshot of your drawing on Canvas.